Exhibit 4

1/29/2008

W. A. DREW EDMONDSON, et al. vs.

TYSON FOODS, INC., et al.

4:05-CV-00329-TCK-SAJ

TULSA FREELANCE REPORTERS 610 S. Main St., Ste. 210

Tulsa, OK 74103

Phone: (918) 587-2878 Fax: (918) 587-2879

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1 IN THE UNITED STATES DISTRICT COURT FOR THE 2 NORTHERN DISTRICT OF OKLAHOMA 3 W. A. DREW EDMONDSON, in his) 4 capacity as ATTORNEY GENERAL) OF THE STATE OF OKLAHOMA and) 5 OKLAHOMA SECRETARY OF THE ENVRONMENT C. MILES TOLBERT,) 6 in his capacity as the TRUSTEE FOR NATURAL RESOURCES) 7 FOR THE STATE OF OKLAHOMA, 8 Plaintiffs, 9)4:05-CV-00329-TCK-SAJ vs. 10 TYSON FOODS, INC., et al, 11 Defendants. 12 13 14 THE VIDEOTAPED DEPOSITION OF 15 VALERIE J. HARWOOD, Ph.D., produced as a witness 16 on behalf of the Defendants in the above styled and 17 numbered cause, taken on the 29th day of January, 2008, in the City of Tulsa, County of Tulsa, State 18 19 of Oklahoma, before me, Bonnie Glidewell, a 20 Certified Shorthand Reporter, duly certified under

and by virtue of the laws of the State of Oklahoma.

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1	A P P E A R A N C E S
2	FOR THE PLAINTIFFS: Mr. David Page
4	Attorney at Law 502 West 6th Street
5	Tulsa, OK 74119 -and-
6	Mr. Louis Bullock Attorney at Law
7	110 West 7th St. Suite 707 Tulsa, OK 74119
8	
9	FOR TYSON FOODS: Mr. Jay Jorgenson Mr. Gordon Todd
10	Attorneys at Law 1501 K Street, N.W. Washington, D.C. 20005
11	washingcon, b.c. 20005
12	FOR CARGILL: Mr. John Tucker Attorney at Law
13	100 West 5th Street Suite 400
14 15	Tulsa, OK 74103
16	FOR SIMMONS FOODS: Mr. John Elrod Attorney at Law
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18	Fayetteville, AR 72701
19	FOR PETERSON FARMS: Ms. Nicole Longwell Attorney at Law
20	320 South Boston Suite 700 Tulsa, OK 74103
21	1015a, OK 74103
22	FOR GEORGE'S: Mr. Woody Bassett, III Attorney at Law
23	221 North College Fayetteville, AR 72701
24	
25	

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1	FOR WILLOW BROOK:	Ms. Jennifer Griffin Attorney at Law
2		314 East High Street
3		Jefferson City, MO 65109 (Via phone)
4		(VIA phone)
5	FOR CAL-MAINE:	Mr. Robert Sanders Attorney at Law
6		2000 AmSouth Plaza P. O. Box 23059 Jackson, MS 39225
7		-and- Mr. Robert Reddeman
8		Attorney at Law 1437 South Boulder
9		Tulsa, OK 74119
10		
	ALSO APPEARING:	Mr. Samuel Myoda
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12 13		
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1	this case, any person at all, that you give		
2	directions to, that you tell what to do?		
3	A I give suggestions for analysis to Roger		
4	Olsen, for example, microbial analysis.		
5	Q Okay, and that's more of a collegial 08:32AM		
6	relationship?		
7	A That's your terminology.		
8	Q How do you define your relationship with Roger		
9	Olsen?		
10	A I would say, yes, we are colleagues, but that 08:32AM		
11	at times I do direct what decisions are made in		
12	terms of the analysis in my area of expertise.		
13	Q Okay. And I think I can help you out here.		
14	What I'm trying to figure out what to ask you about,		
15	what not to ask you about. And if you direct the 08:32AM		
16	hydrogeology in the case, then we'll send a lot of		
17	time on the hydrogeology; if you don't, we won't.		
18	A I do not direct the hydrogeology in the case.		
19	Anything that I have any influence over in terms of		
20	where we go is the microbial water quality testing. 08:32AM		
21	Q So to the extent there is microbial water		
22	testing going on, are you in charge? Do you direct		
23	what is done?		
24	MR. PAGE: Object to the form.		
25	THE WITNESS: A lot of water quality 08:32AM		

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1	testing was actually completed and/or planned before		
2	I came on the case and so I did not direct all of		
3	the nearly all of the planning of the		
4	microbiological testing.		
5	Q (By Mr. Jorgenson) Okay. 08:33AM		
6	A The		
7	Q I'm sorry, I didn't mean to interrupt you. Go		
8	ahead?		
9	A That's all right.		
10	Q So when you came on to the case and a lot of 08:33AM		
11	testing had already been done, by whom had it been		
12	done?		
13	A The laboratories that we had mentioned: EML,		
14	FoodProtech and the mystery laboratory.		
15	Q Okay, and if you remember the mystery 08:33AM		
16	laboratory's name, let us know.		
17	A (Nodding head up and down.)		
18	Q All right, let me return to the documents you		
19	provided. Did you make my handwritten notes in the		
20	course of working on this case? 08:33AM		
21	A I don't remember doing that. I don't make a		
22	lot of handwritten notes.		
23	Q Do you send a lot of e-mail in the case?		
24	A Yes.		
25	Q Okay. I have did you preserve the e-mail 08:34AM		

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1	the data on which you were relying on was secured		
2	using appropriate standards we discussed earlier?		
3	A I asked for a list of the methods utilized by		
4	the laborat	ories and I talked to the laboratory	
5	managers an	d I viewed the data.	01:15PM
6	Q Do y	ou still have that list of methods	
7	utilized?		
8	A Yes.		
9	Q Did	you provide it to the State's lawyers?	
10	A Yes.		01:15PM
11	Q Coul	d you provide it to them again if they	
12	didn't give	it to us?	
13	A Yes.		
14	Q Did	you contribute in any way to the	
15	development of the State's standard operating 01:15PM		
16	procedures for the collection of samples?		
17	A Mini	mally. I recall being asked to talk about	
18	the compost	ing of field samples, of soil samples and	
19	poultry lit	ter samples and, also, about the	
20	collection	of high flow samples.	01:16PM
21	Q Okay	. So was the sampling structure set up by	
22	others?		
23	A Gene	rally, yes.	
24	Q Who?		
25	A CDM	and Roger Olsen's team.	01:16PM

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1	been convincingly demonstrated yet."		
2	Q Thank you, that's good. Let me have you read		
3	several, then we can talk about them. You know		
4	what? I think that's it I mean the rest are		
5	here, they are already written for what they are. 02:10PM	1	
6	Do you still think that's true?		
7	A This was written to talk about the		
8	library-dependent methods, and so, yes, it's		
9	certainly true about the library-dependent methods.		
10	Q And do you believe that library-independent 02:10PM	1	
11	methods are different?		
12	A I believe that with the proper controls and		
13	application of the correct methods for various host		
14	sources, you could get at a pretty good estimate of		
15	the quantitative loading. 02:10PM	1	
16	Q And what would the error rate be in that		
17	pretty good estimate?		
18	A I'm going to say I wouldn't accept an error		
19	rate bigger than 25 percent.		
20	Q And how would you know that was the error 02:10PM	1	
21	rate? Error rates are let me state a different		
22	question. Is it true that error rates are typically		
23	established through a procedure?		
24	A Yeah. So, generally, if you were trying to do		
25	the contribution, trying to assess whether you could 02:11PM	1	

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1	correctly determine the contribution of organisms of		
2	various sources to contamination in a sample, you		
3	would put you would mix varying quantities of		
4	these organisms for which you had microbial source		
5	tracking tests, you would mix these species together 02:11PM		
6	in a certain proportion that you knew and then you		
7	try to determine, based on your assay, the		
8	quantitative proportions of the bacteria in the		
9	sample.		
10	Q And that could produce, in the	02:11PM	
11	library-independent methods, an error rate of up to		
12	25 percent?		
13	A No, I was saying it hasn't been done.		
14	Q Oh, it hasn't been done?		
15	A No.	02:11PM	
16	Q Okay. It could be done?		
17	A No well, but well, we don't, that's		
18	something that's like pushing right at the forefront		
19	of what we know how to do.		
20	Q Okay, I understand. We have reached the	02:11PM	
21	two-minute warning flag, so let's switch tapes.		
22	MR. WIETHOLTER: We are off the record.		
23	The time is 2:13 p.m.		
24	(Following a short recess at 2:13 p.m.,		
25	proceedings continued on the Record at 2:23 p.m.)	02:21PM	

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